



Installation Guide for Windows



VCCI

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取扱説明書に従って正しい取り扱いをして下さい。



WARNING

Use the power adapter included with the Pegasus J2. Using a different power adapter can damage the device.



Important

For best results, install the J2 driver and Promise WebPAM LITE software before completing the Thunderbolt cable connection to the J2.



WARNING

DO NOT disconnect the Thunderbolt cable until you have completed the “Safely Remove” procedure with the PROMISE WebPAM LITE software.

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PACKING LIST

Check the shipping package to make sure you have the following items:

- Pegasus J2 drive
- Universal power adapter
- Product CD
- Protective slip case

Pegasus J2 drive



power adapter with plugs



SYSTEM REQUIREMENTS FOR WINDOWS

The Pegasus J2 drive for Windows can be used on computers equipped with a Thunderbolt™ port running editions of Windows 7 or Windows 8 (see table below). WebPAM LITE software used for managing and monitoring the J2 is compatible with Windows 7 and Windows 8, however striped RAID configuration is not supported on all Windows editions, see the table below for a detailed list of configuration setups supported on the different Windows editions. Note that mirrored RAID (RAID 1) is not supported on the J2 for Windows regardless of version.



Note

Windows Mirrored RAID (RAID 1) is NOT supported on the Pegasus J2.

The table below summarizes the type of support on the different Windows editions.

Windows Edition	Striped RAID	JBOD
Windows 7 Ultimate	✓	✓
Windows 7 Enterprise	✓	✓
Windows 7 Professional	✓	✓
Windows 7 Home Premium*	✓	✓
Windows 7 Home Basic with SP1 x86**	∅	✓
Windows 7 Starter with SP1 x86**	∅	✓
Windows 8 Enterprise	✓	✓
Windows 8 Pro	✓	✓
Windows 8 (basic)*	✓	✓

* Requires manual configuration of Striped RAID. The user is automatically directed to the Windows Disk Manager to complete the configuration.

** RAID is not supported, must use JBOD configuration (appears as two separate disks)

SUMMARY OF WINDOWS SETUP PROCEDURE

The setup process for Windows is summarized below. Read “Install J2 on Windows” for step-by-step installation instructions.

1. Install the the packaged software and driver **WebPAM LITE including driver** located on the Product CD, or download it from PROMISE. See download instructions in “Download WebPAM LITE including Driver” on page 9.
2. Connect the J2 to your Windows computer with a Thunderbolt cable.
3. Launch WebPAM LITE and complete transition to Windows file system and striped RAID configuration.* This step is not the same on all versions of Windows.

*Striped RAID not supported on Windows 7 Home Basic and Windows 7 Starter editions

PEGASUS J2 DRIVER AND WEBPAM LITE SOFTWARE

Before connecting the Pegasus J2 to your Windows computer, it is necessary to first install a driver. The driver is located on the Product CD, or can be downloaded from the PROMISE website. If you are installing from the CD, look for the **WebPAM LITE including driver** option in the menu that appears automatically after inserting the CD into the DVD/CD drive on your computer.

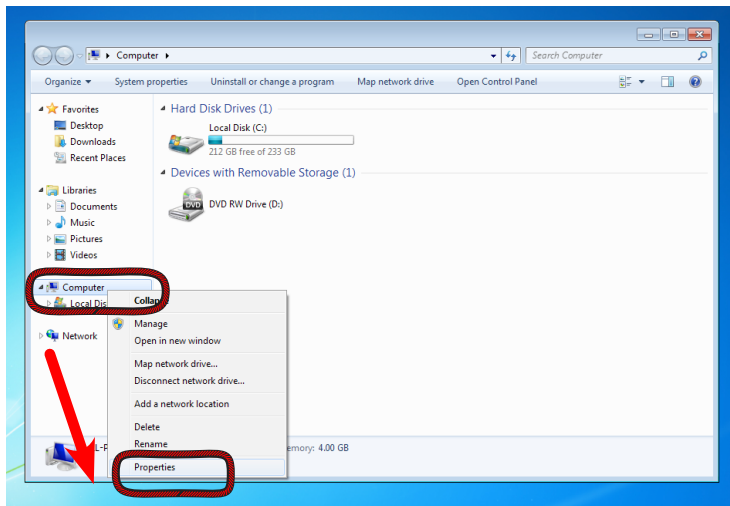
If you prefer to download the installation package, go to the [PROMISE Download Center](#) and get the file “WebPAM LITE including driver” for the Pegasus J2 for Windows. You can follow the step-by-step instructions in “Download WebPAM LITE including Driver” on page 7.

WHAT VERSION OF WINDOWS IS RUNNING ON MY COMPUTER?

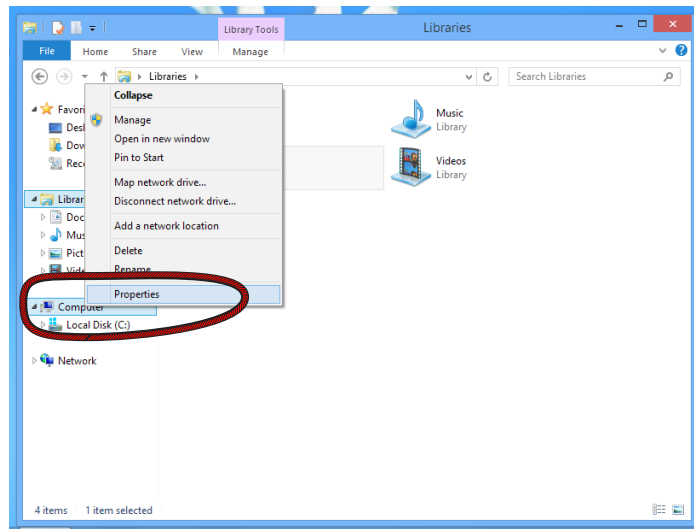
To find out what version of Windows is running on your computer, do the following:

1. Click on the Windows **Start** menu.
2. Select **Computer** from the menu bar.

Windows 7



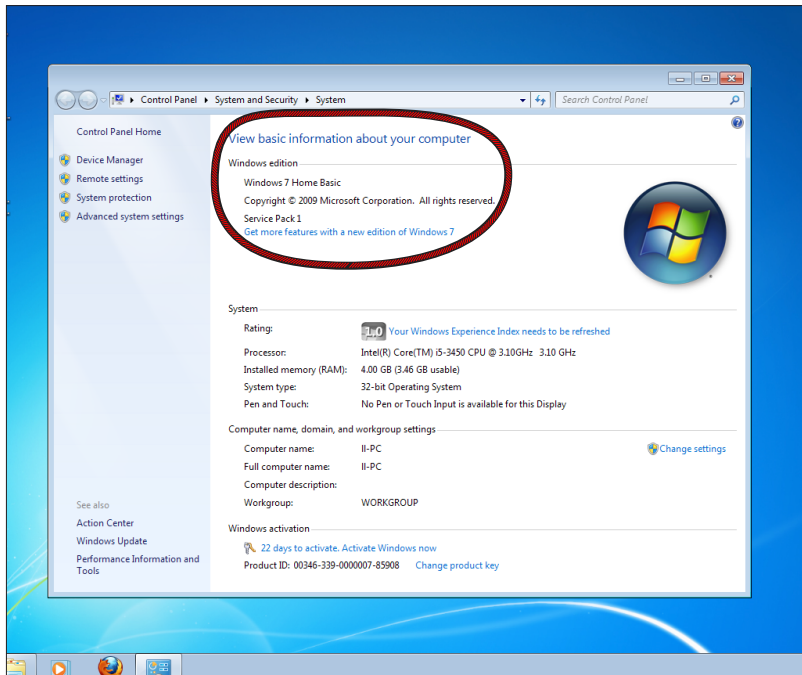
Windows 8



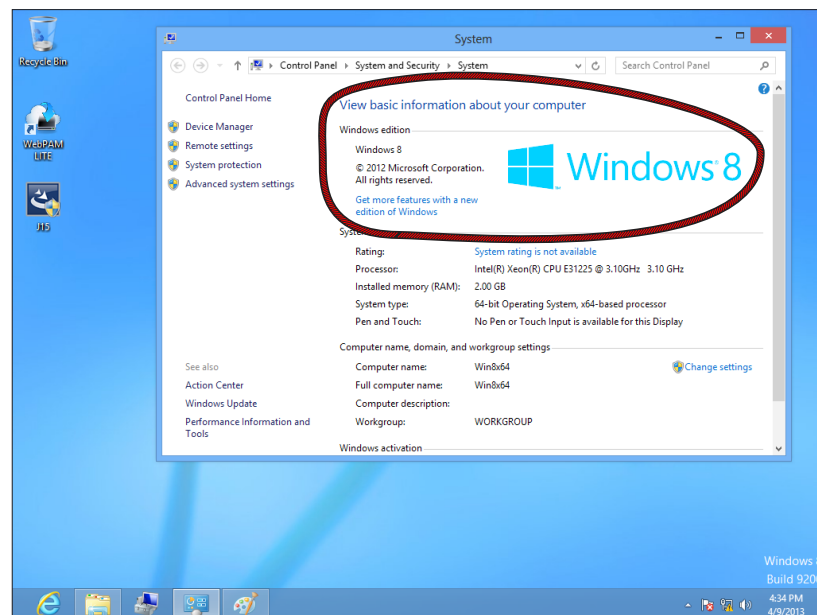
3. The next screen will display the disk drives and other hardware connected to your computer.
4. Right-click anywhere within the white space (don't click on any icons).
5. Highlight **Properties** and click to open.
6. You will be presented with the **System** screen which includes all of the basic information about your computer.

Here you can determine which Windows edition you have, view the system type (32 or 64-bit), speed of your processor, see how much memory is installed, name of your computer, and other details.

Windows 7 - Home Basic Edition



Windows 8



INSTALL J2

You will need to install the J2 driver and WebPAM LITE software for Windows before connecting the J2 to your Windows computer. The installation file includes PROMISE software WebPAM LITE and a driver for the Thunderbolt connection. Load the Product CD in your DVD/CD drive and look for **WebPAM LITE including driver** in the Welcome menu that appears. Alternatively, you can download the driver and software needed from the PROMISE website.

INSTALL FROM CD

If you are installing the driver and software from the Product CD, insert the CD into the DVD/CD drive on your computer, and click on the link **WebPAM LITE including driver** in the menu that appears, then follow the instructions in "Step 1: Install J2 Software and Driver for Windows" on page 8.



Important

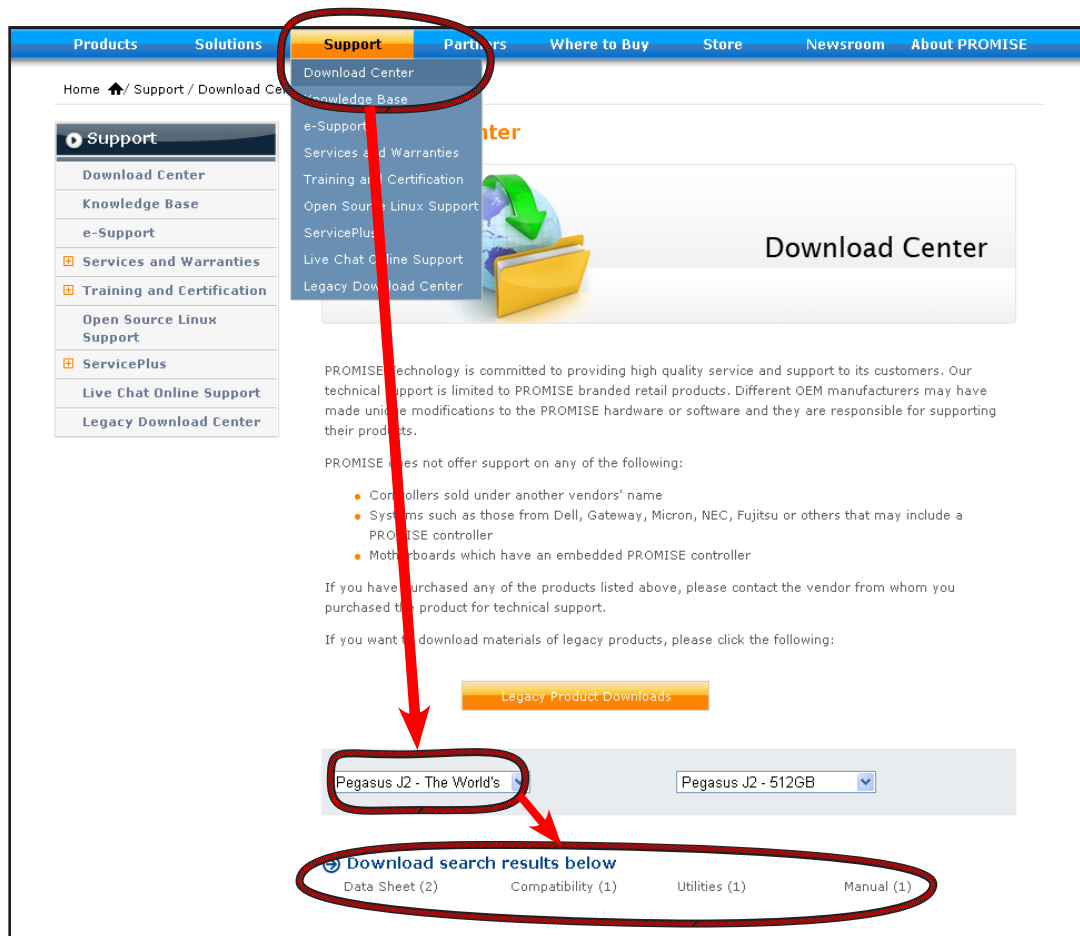
For best results, install the J2 driver and Promise WebPAM LITE software before completing the Thunderbolt cable connection to the J2.



DOWNLOAD **WebPAM LITE** INCLUDING DRIVER

If your computer does not have a CD/DVD drive, follow these instructions to download the **WebPAM LITE including driver** installation file for Windows from the PROMISE website.

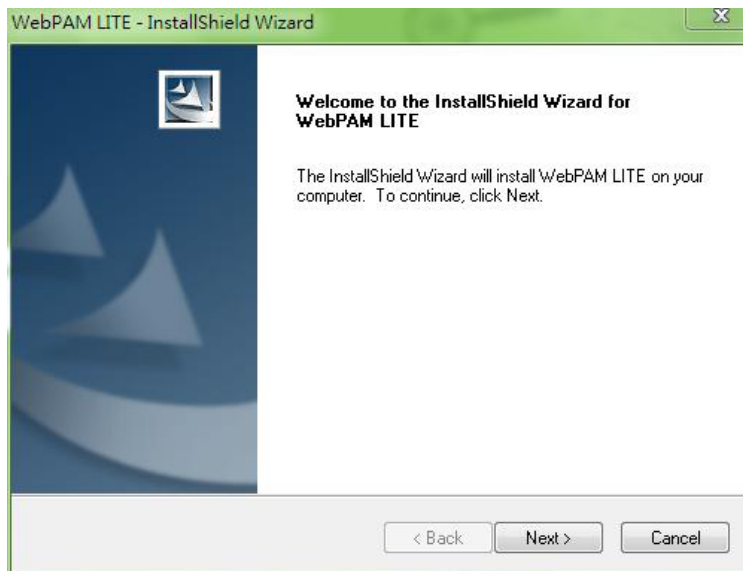
1. Go to the PROMISE website (www.promise.com) and click on **Support** in the banner at the top of the web page, scroll down to **Download Center**.
2. In the **Download Center** page, scroll to find the **Pegasus J2 for Windows** in the pull-down menu on the left side on the bottom of the menu. In the pull-down menu the right side, choose the 512GB or 256GB model (the software and driver are identical for both models).
3. Click on the link for the **WebPAM LITE including Windows driver** listed under **Download search results**, the download link will be revealed below, click on the download link for the installation file you want.
4. Place the installation file on your Windows system where it will be easy to locate and install it from that location. Follow the installation instructions in "Step 1: Install J2 Software and Driver for Windows" on page 8.



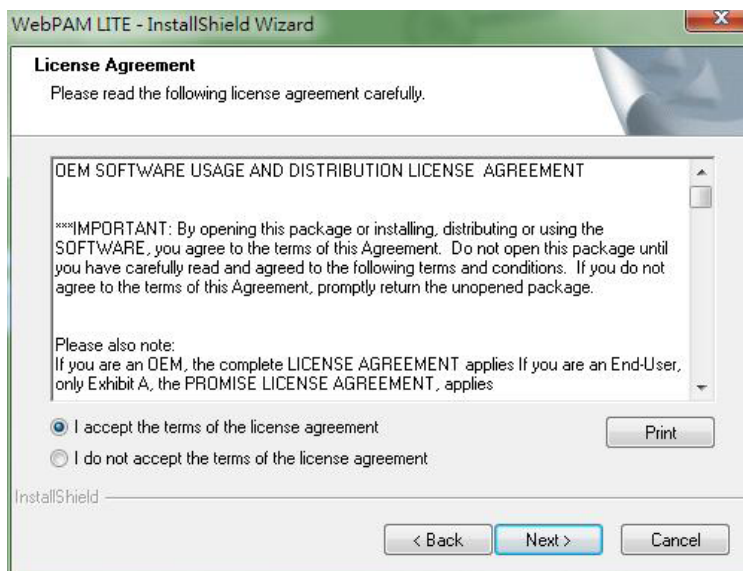
STEP 1: INSTALL J2 SOFTWARE AND DRIVER FOR WINDOWS

Insert the Product CD into your DVD/CD drive and click on **WebPAM LITE including driver** in Pegasus J2 menu that appears. Or launch the installation file from the location on your computer where it has been downloaded, and follow these steps.

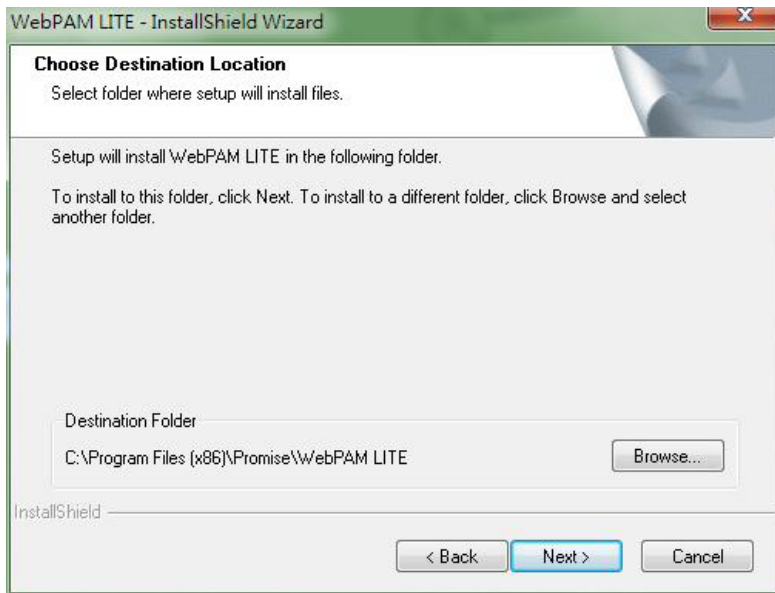
1. Launch the installation file, the InstallShield Wizard for WebPAM LITE appears. Click **Next** to begin the installation.



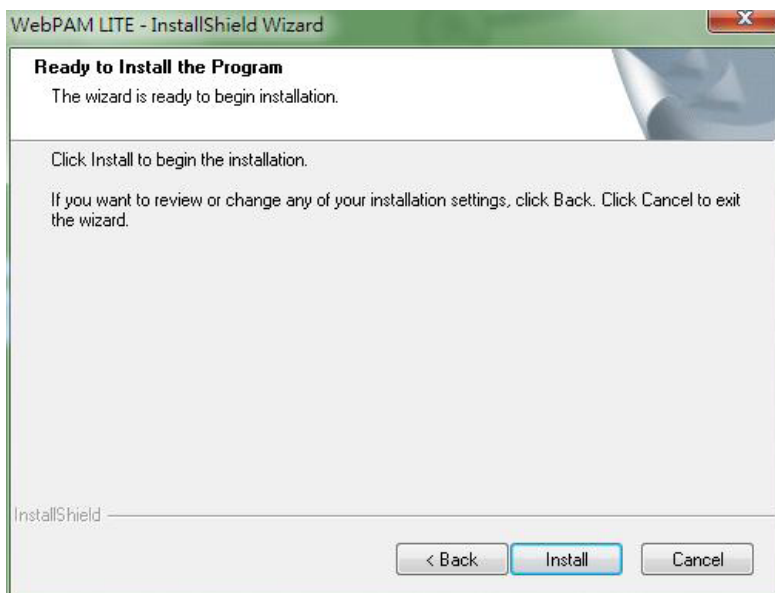
2. The License Agreement appears. Click to select the "I accept the terms of the license agreement" option if you accept, and click on **Next** to continue.



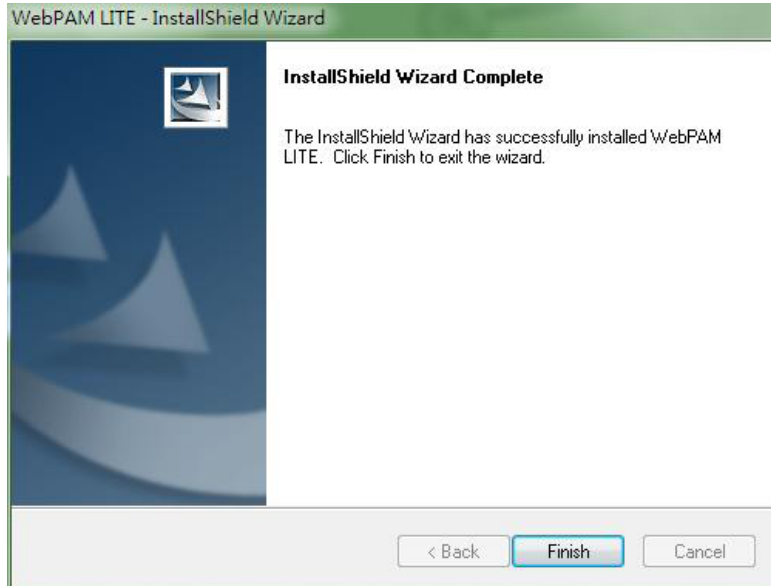
3. Choose where to install the software. The default location is the Programs Files folder. Click on **Next** to continue.



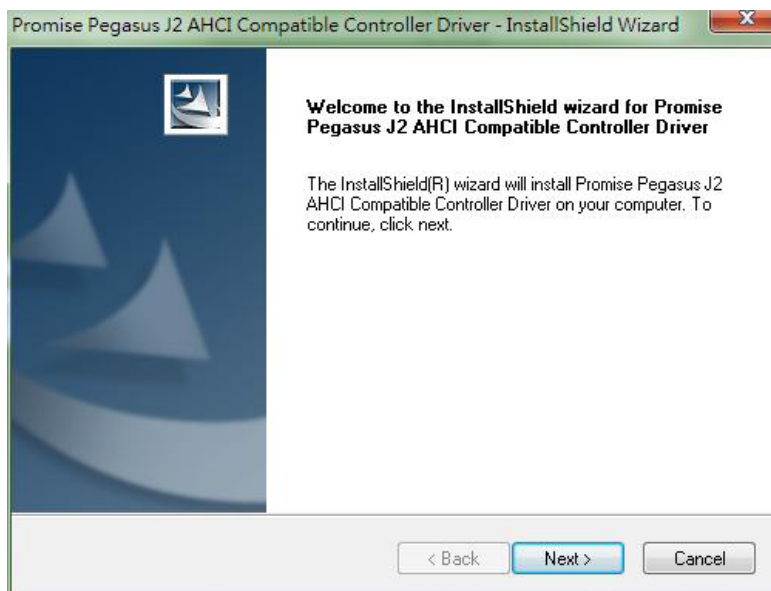
4. Click Install to install WebPAM LITE software. The installation will take a few seconds.



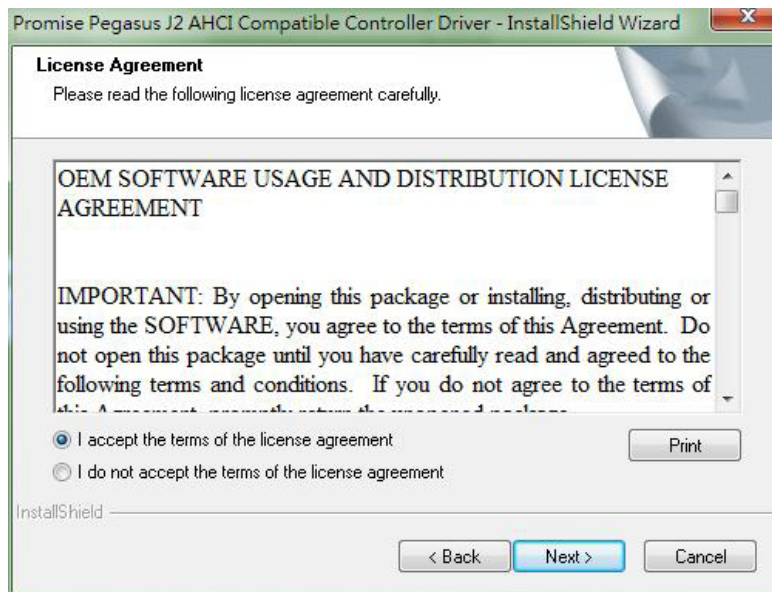
5. In the last WebPAM LITE InstallShield Wizard menu, click the **Finish** button. After completion, another InstallShield session for the hardware driver will automatically launch.



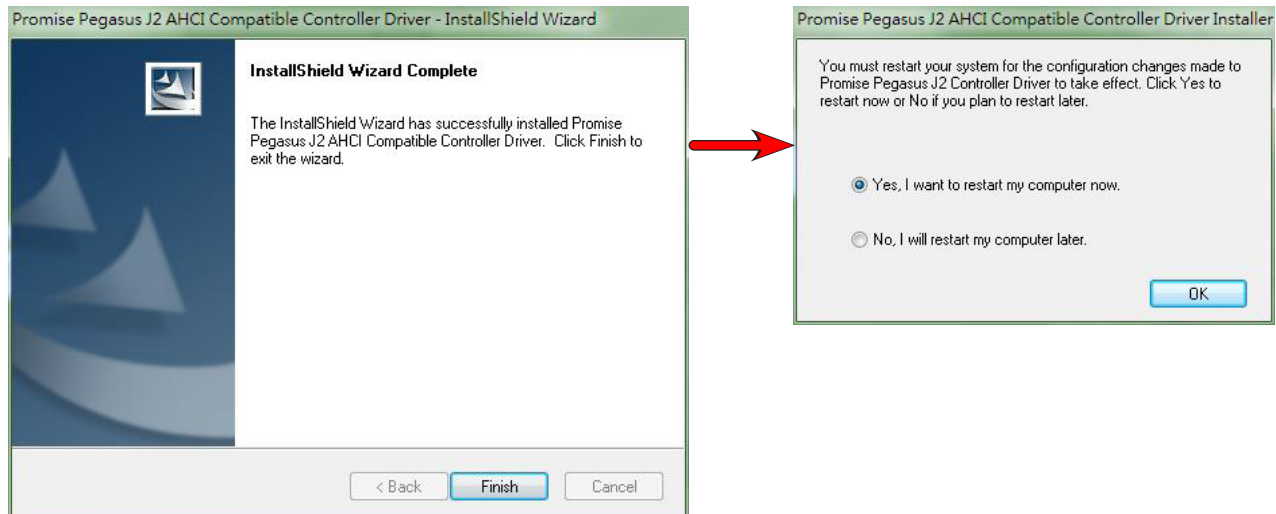
6. The first InstallShield Wizard menu for the driver appears with a brief explanation. Click **Next** to continue.



7. In the License Agreement menu, click to select the "I accept the terms of the license agreement" option if you accept, and click on **Next** to continue.



8. When the driver installation procedure is completed, click Finish to close the InstallShield Wizard. A message prompt appears informing you that a system restart is necessary, the "Yes, I want to restart my computer now" option is selected by default. Click OK to restart now, otherwise choose the "No, ..." option and restart later. The J2 cannot be used until you reboot the computer. After restarting, you can connect the J2 to your computer. See "Connect the J2 to your Windows computer" below.



STEP 2: CONNECT THE J2 TO YOUR WINDOWS COMPUTER

With the driver and software now installed, go ahead and make the Thunderbolt connection.

Insert one end of a Thunderbolt cable into the Thunderbolt port on the J2 and connect the other end of the cable to a Thunderbolt port on your computer. Make sure the cable connector is oriented correctly to the port on both the J2 and the computer. It should fit easily in place when correctly positioned.

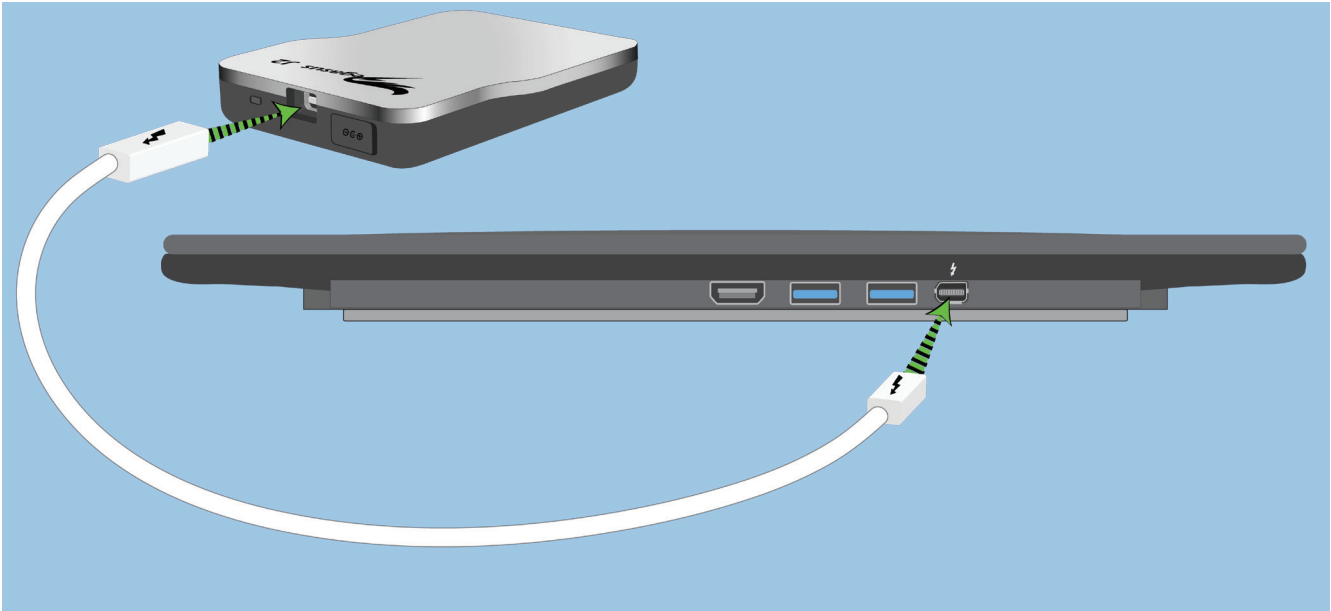
Once connected, proceed to “Step 3: Configure J2 for Windows” on page 14 for further instructions.



WARNING

DO NOT disconnect the Thunderbolt cable until you have completed the “Safely Remove” procedure with the PROMISE WebPAM LITE software. See “Safely Remove J2 from Windows” on page 29.

Thunderbolt connection to Windows computer



Important

Make sure the Thunderbolt cable connector is oriented properly to be inserted into Thunderbolt ports on the J2 and on the computer.

STEP 3: CONFIGURE J2 FOR WINDOWS

Follow the instructions in this section to complete the installation of the J2 on your Windows computer. The procedure to configure the J2 for all supported versions of Windows begins with WebPAM LITE and clicking the **Switch to Windows** button.

The default file system on the J2 is used with the Mac OS X, therefore the drive must be formatted with NTFS, a file system compatible with Windows. Formatting the drive erases all data.

Some editions of Windows are then automatically directed to use the Windows Disk Management menu to complete the configuration. If your version of Windows requires further configuration in Windows Disk Manager, follow the additional instructions for the version of Windows you are running.



WARNING

The “Switch to Windows” procedure is only required when the J2 is first used on a supported version of Windows. The storage disks on the J2 are formatted to be compatible with the Windows OS. All data is erased on the J2 during this procedure.

CHECK WINDOWS VERSION

If you do not know what version on Windows is running on your computer, do the following:

1. Click on the Windows **Start** menu.
2. Select **Computer** from the menu bar.
3. The next screen will display the disk drives and other hardware connected to your computer.
4. Right-click anywhere within the white space (don't click on any icons).
5. Highlight **Properties** and click to open.
6. You will be presented with the **System** screen which includes all of the basic information about your computer.

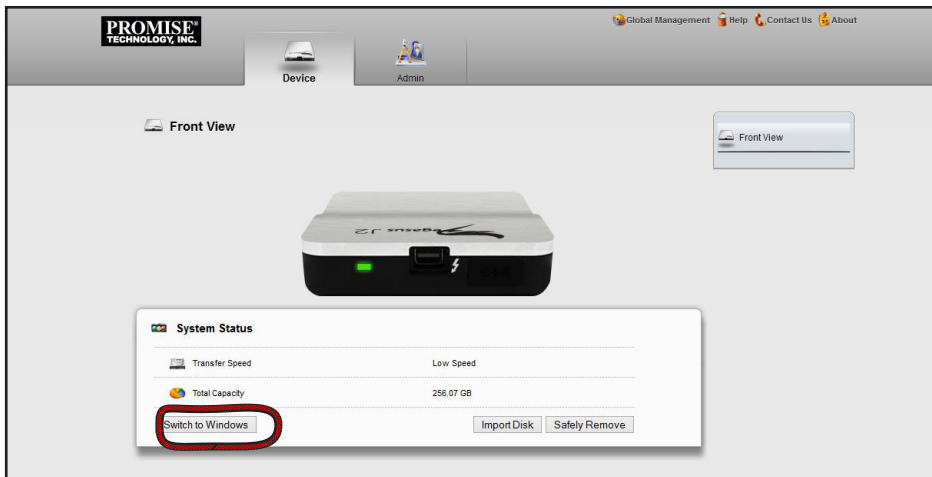
The Windows edition and the system type (32 or 64-bit) are listed. Go to “What version of Windows is running on my computer?” on page 4 to view examples of the Windows menus to check the version.

Regardless of what version of Windows you are running, after it has been switched to Windows and configured, the J2 is automatically mounted when Windows is booted up or the Thunderbolt cable connection is established.

To disconnect the J2 while Windows is running, be sure to perform the **Safely Remove** function see “Safely Remove J2 from Windows” on page 29.

To configure the J2 for Windows:

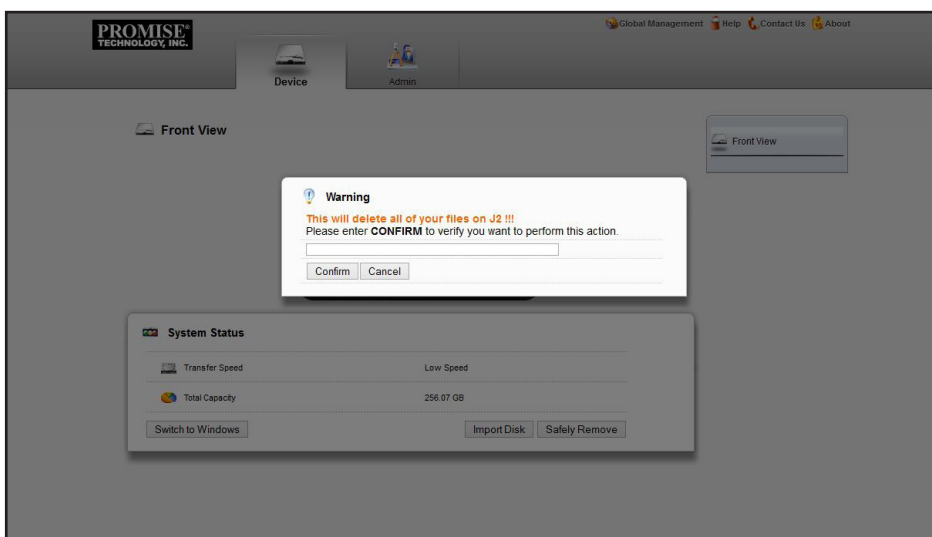
1. Launch WebPAM LITE.
2. Click the **Switch to Windows** button in the first WebPAM LITE menu that appears, the **Device** menu.



WARNING

All data is erased on the J2 during “Switch to Windows” procedure.

3. A pop-up dialog box appears asking for confirmation. **All data on the disk will be erased**, so you must type “Confirm” in the entry field and then click on the **Confirm** button to proceed. The conversion process takes a several seconds.



4. Now the WebPAM LITE menu that appears depends on what version of Windows is running.

If you are running any of the Windows editions listed below, you should see a message that informs you the J2 has been switched to Windows (see example below), the J2 is ready for use:

- Windows 7 Ultimate
- Windows 7 Enterprise
- Windows 7 Professional
- Windows 8 Enterprise
- Windows 8 Pro



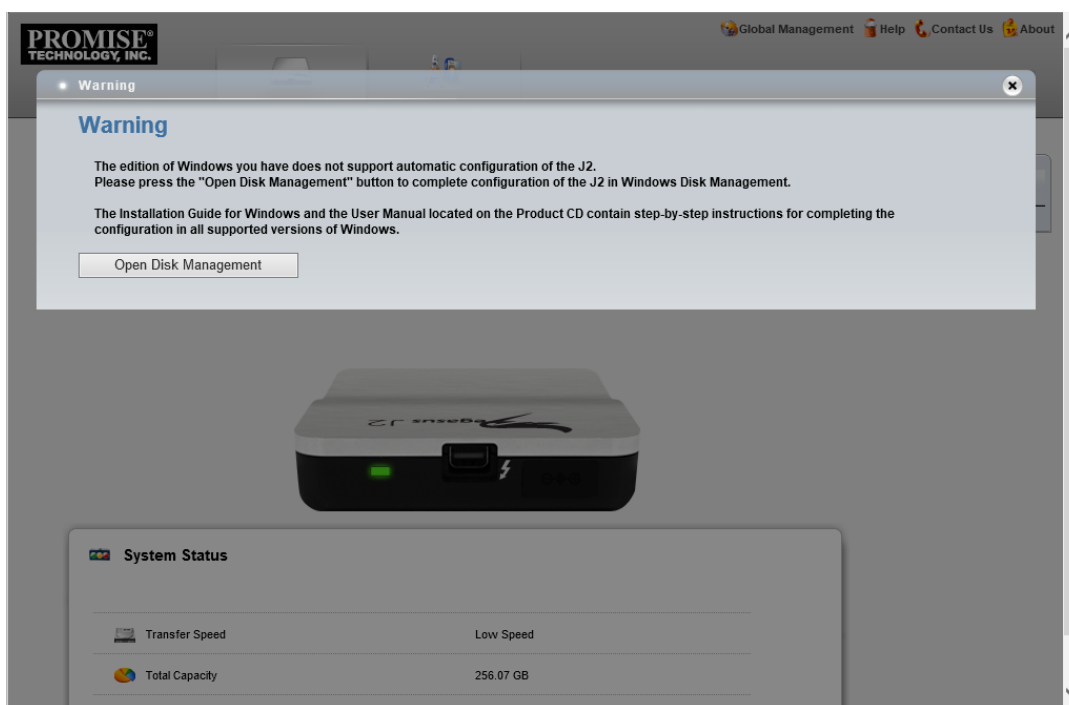
For all other supported versions of Windows, the WebPAM LITE menu appears with a different message (see example on next page); if you do not see the message written in green text in the example above, it is necessary to continue following the instructions on the next page.

Additional configuration in Windows Disk Management is required on these Windows editions before the J2 can be used:

- Windows 7 Starter
- Windows 7 Home Basic
- Windows 7 Home Premium
- Windows 8

The WebPAM LITE menu offers the option to open the Windows Disk Management menu. Click on the **Open Disk Management** button to finish the J2 configuration.

Please follow the additional instructions presented in separate sections according to the version of Windows you are running.



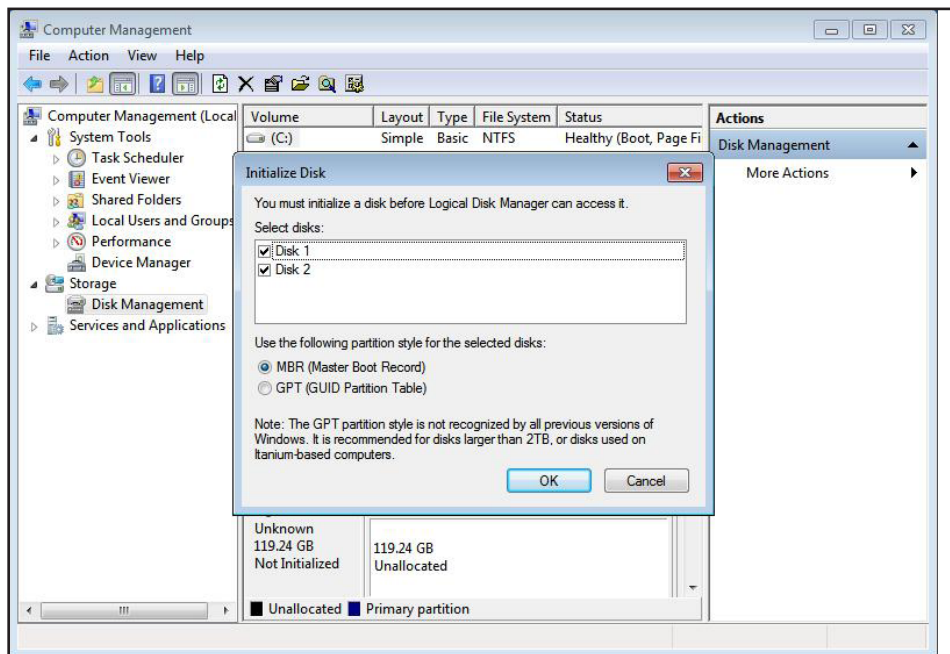
Windows Home Premium and Windows 8 users, skip ahead to "Disk Management for Windows 7 Home Premium and Windows 8" on page 18.

Windows 7 Starter and Windows 7 Home Basic users, skip ahead to "Disk Management for Windows 7 Home Basic and Windows 7 Starter" on page 23.

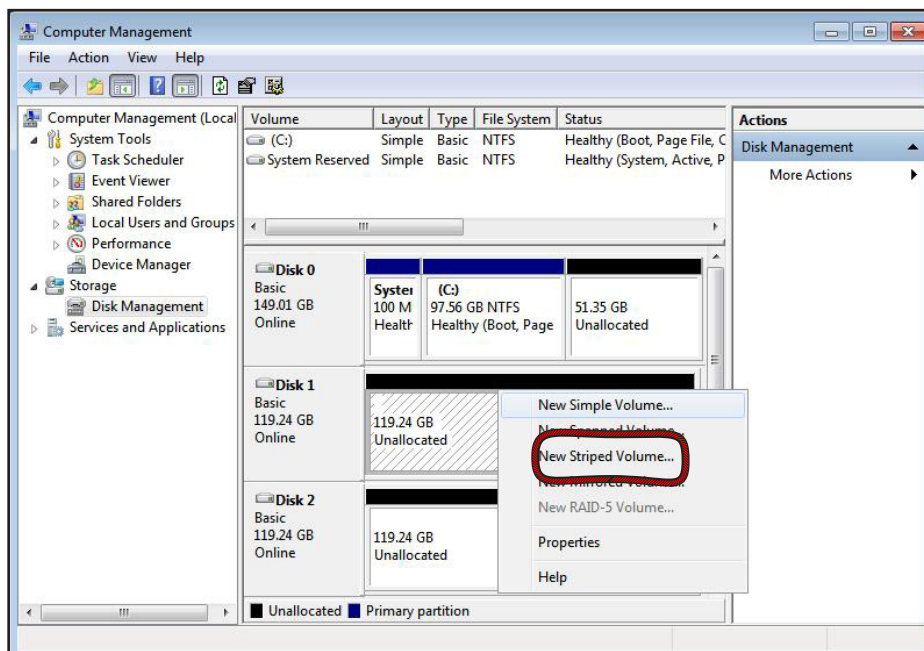
DISK MANAGEMENT FOR WINDOWS 7 HOME PREMIUM AND WINDOWS 8

To complete the J2 conversion to Windows 7 Home Premium and Windows 8, follow these steps:

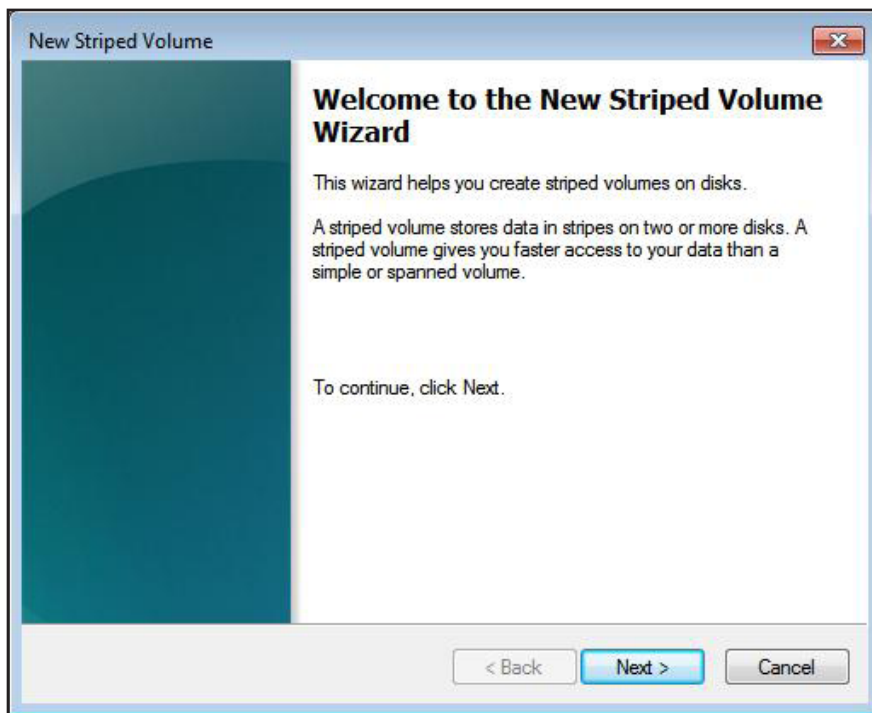
1. The two memory disks on the J2 need to be initialized in Windows before they are used. Windows automatically offers the option to initialize the disks. Leave the default settings (MBR option) with both disks (Disk 1, Disk 2) check marked in the pop-up menu, and click **OK**. You will return to the Disk Manager menu.



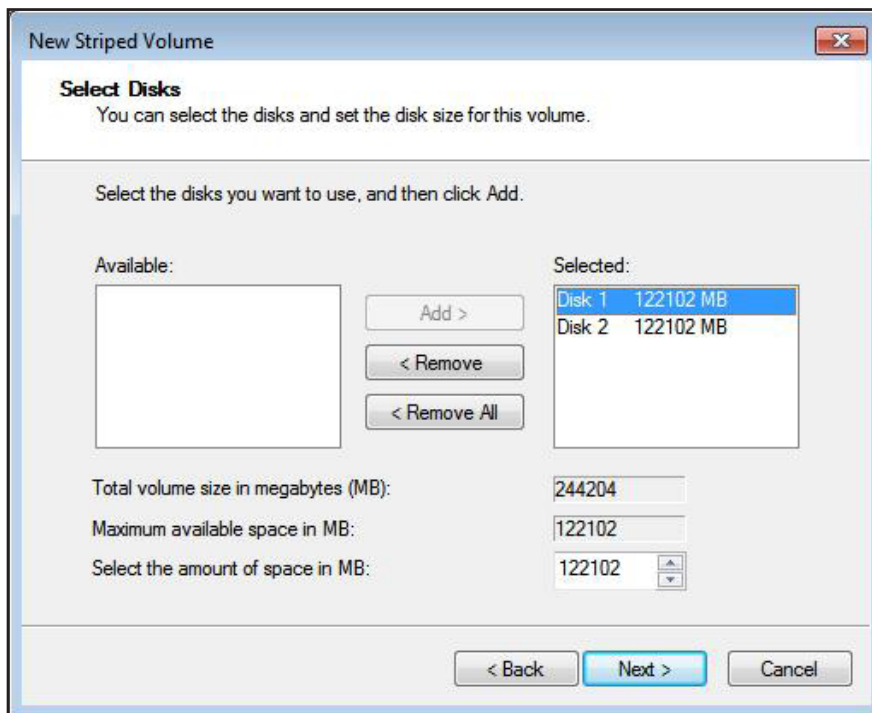
2. Right-click on **Disk 1**, and choose the *New Striped Volume* option. A new Wizard menu appears.



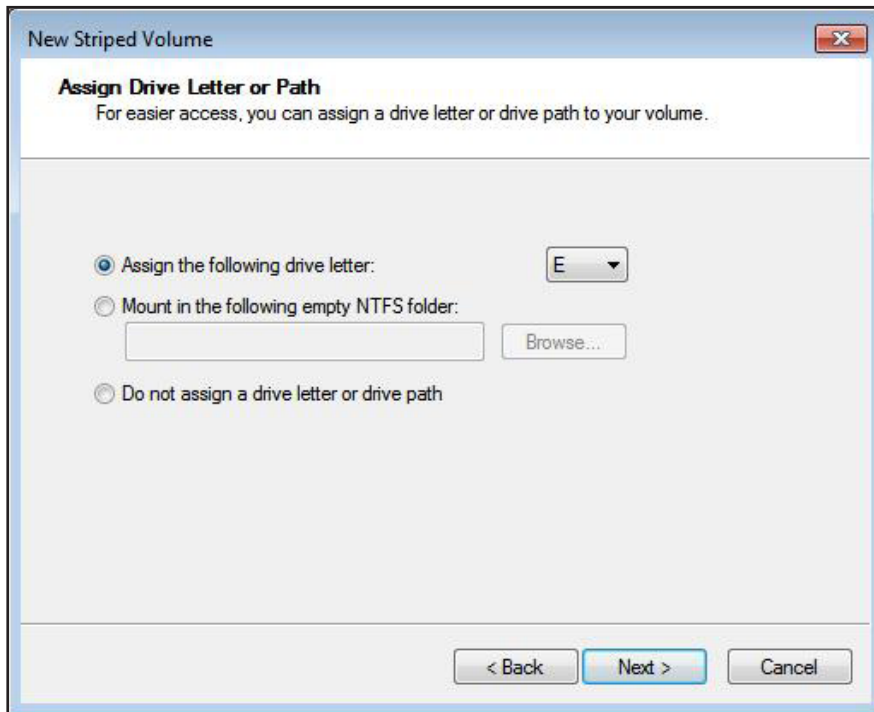
- The New Striped Volume Wizard menu describes the new striped volume that will be created. Click **Next** to begin.



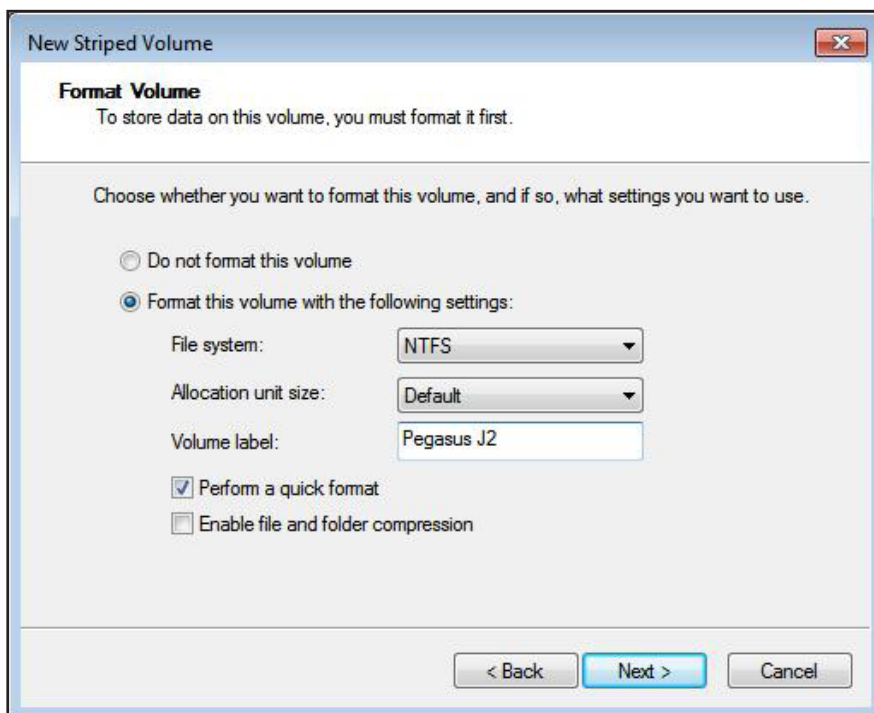
- Select Disk 2 to **Add** to the *Selected* list, make sure **both** Disk 1 and Disk 2 are on the list. Use the maximum available space (default setting). Click **Next** to continue.



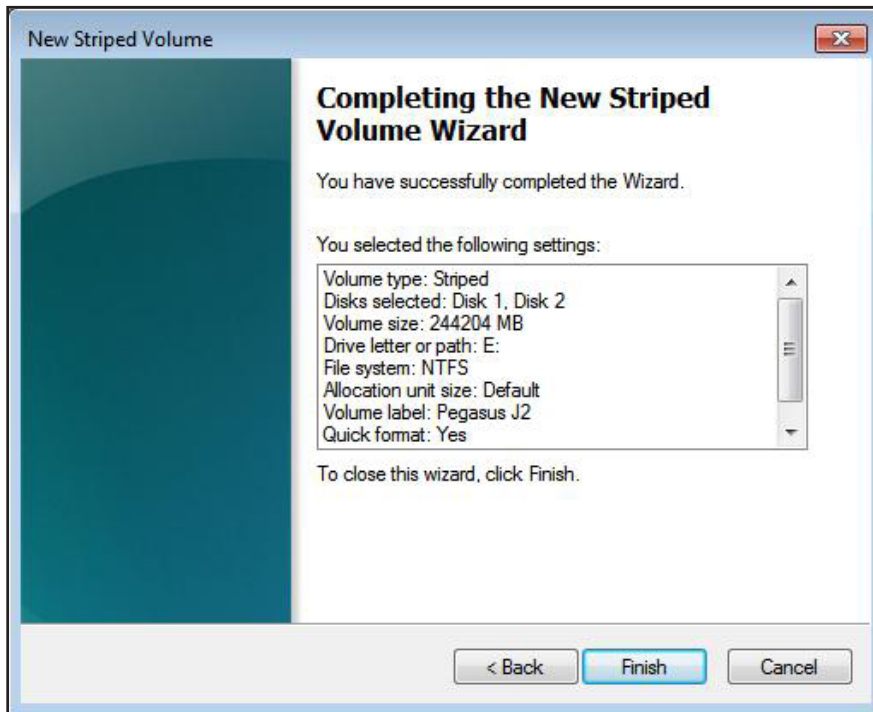
5. Assign a drive letter to the drive. Click **Next** to continue.



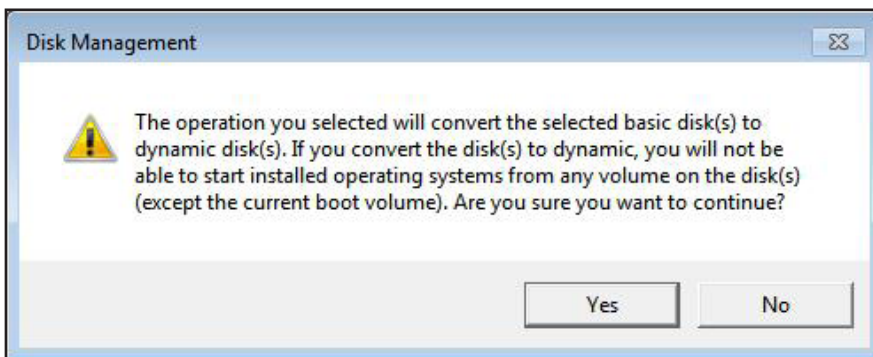
6. Make sure the "Format this volume" option is selected (this is selected by default), type a name for the drive in the **Volume label** entry field, leave the default settings for **File system** (NTFS) and **Allocation unit size**. Assign a drive letter to the drive. Click **Next** to continue.



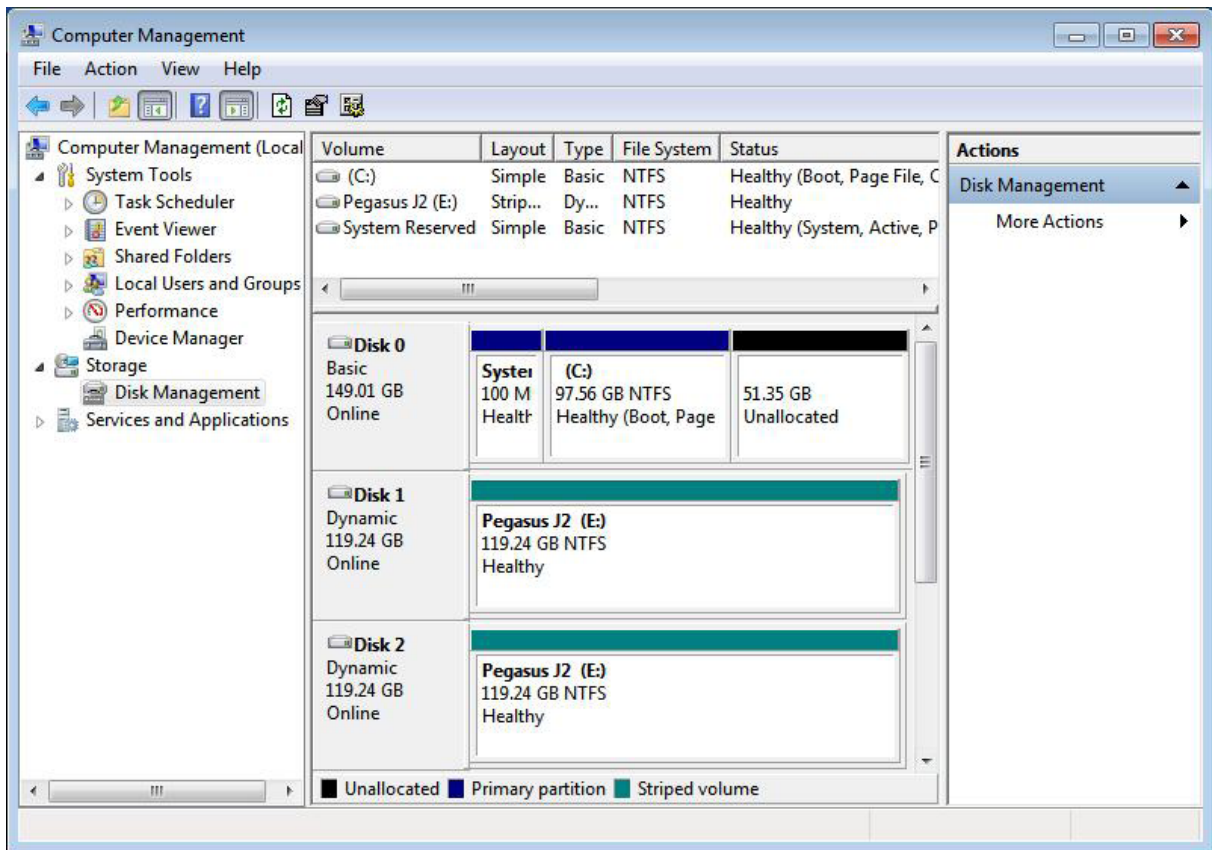
7. The Wizard tasks are completed. Click on **Finish** to format the J2 as a Striped Volume.



8. A pop-up warning informs you that the volume created will be converted to a dynamic disk. This is necessary in order to implement the striped RAID. Click **Yes** to proceed.



9. When the striped volume is finished formatting, Disk 1 and Disk 2 appear listed in the Disk Manager. The J2 is now ready for use.



Remember, if you want to detach the Thunderbolt cable while the computer is running, you must first go through the **Safely Remove** procedure. See instructions below.



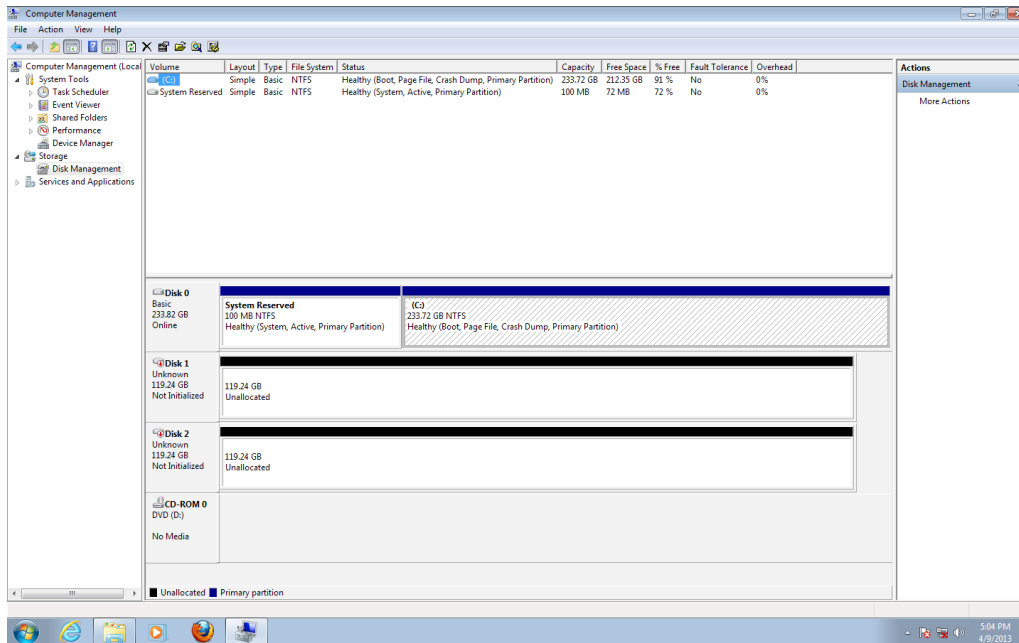
WARNING

DO NOT disconnect the Thunderbolt cable until you have completed the “Safely Remove” procedure with the PROMISE WebPAM LITE software.

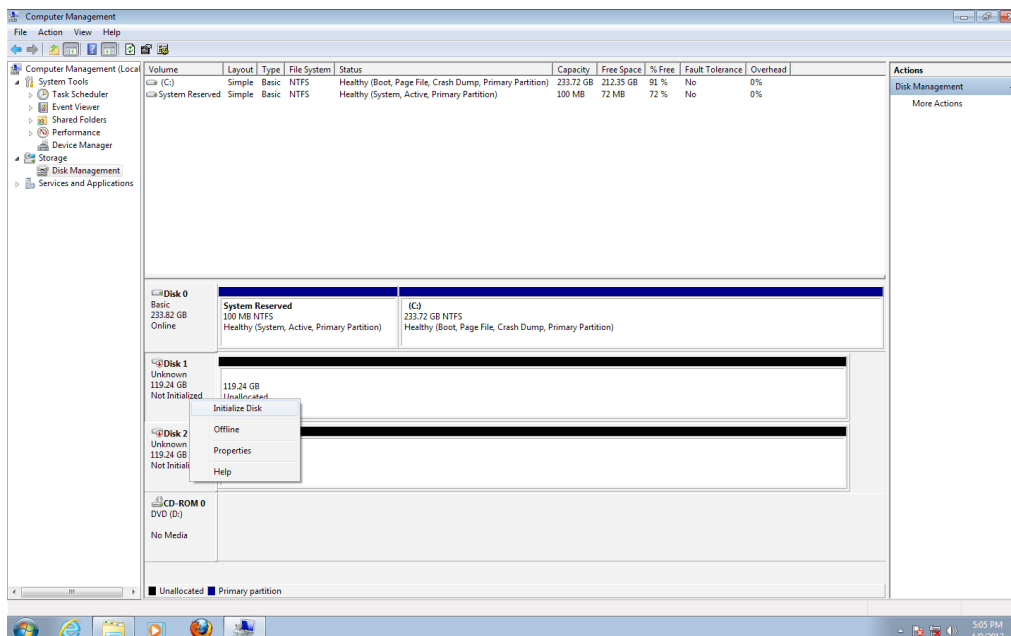
DISK MANAGEMENT FOR WINDOWS 7 HOME BASIC AND WINDOWS 7 STARTER

To complete the J2 conversion to Windows 7 Home Basic and Windows 7 Starter, follow these steps:

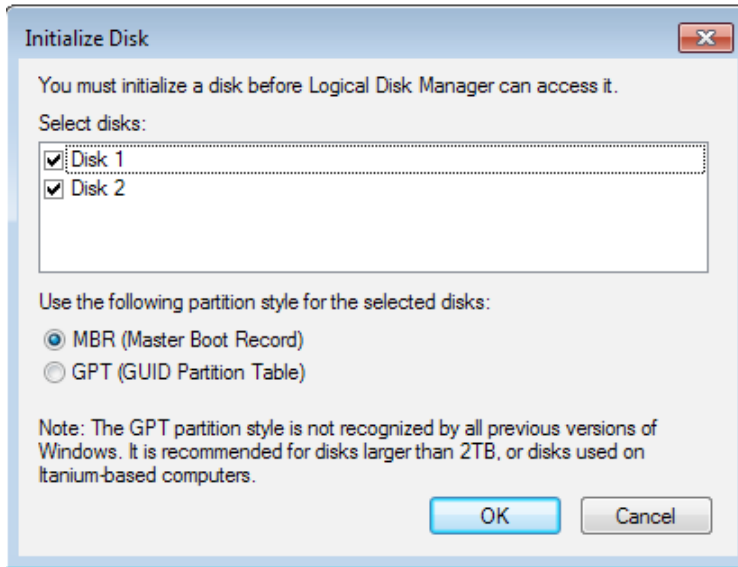
1. The two memory disks on the J2 need to be initialized in Windows before they are used. Since striped RAID is not an option for your Windows version, the two disks are to be configured as two separate storage disks.



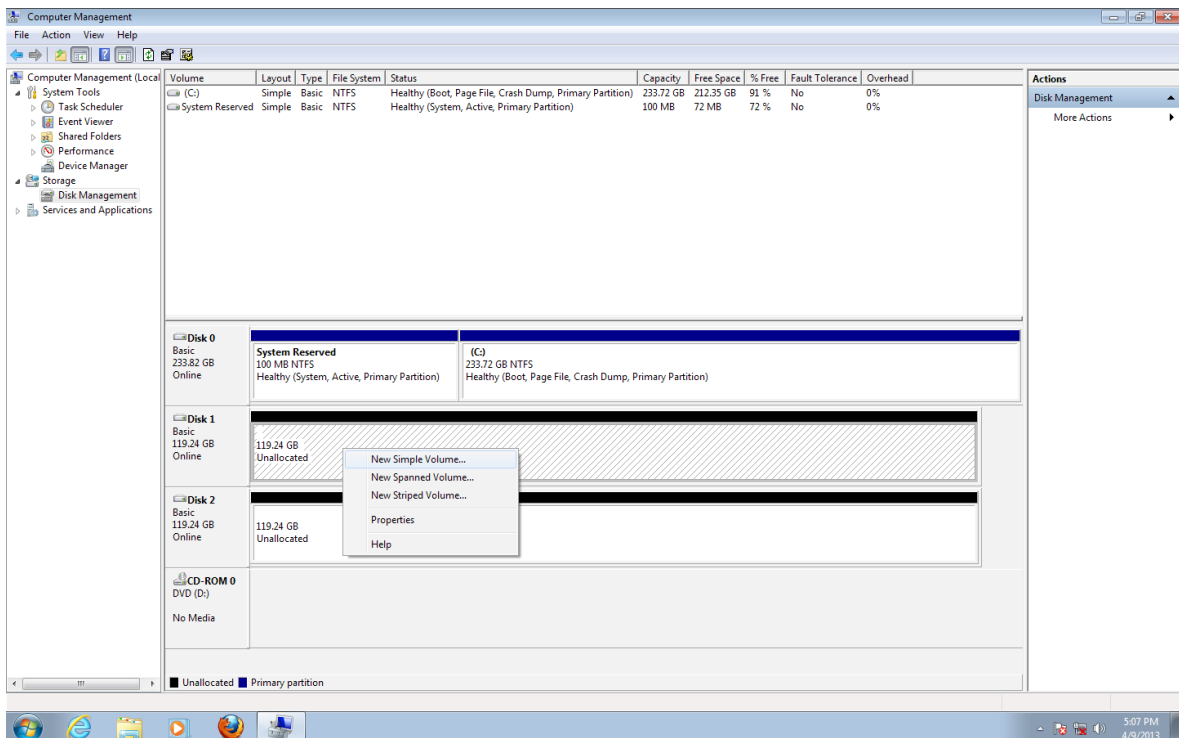
2. Right-click on **Disk 1**, and choose the *Initialize Disk* option. A new menu appears.



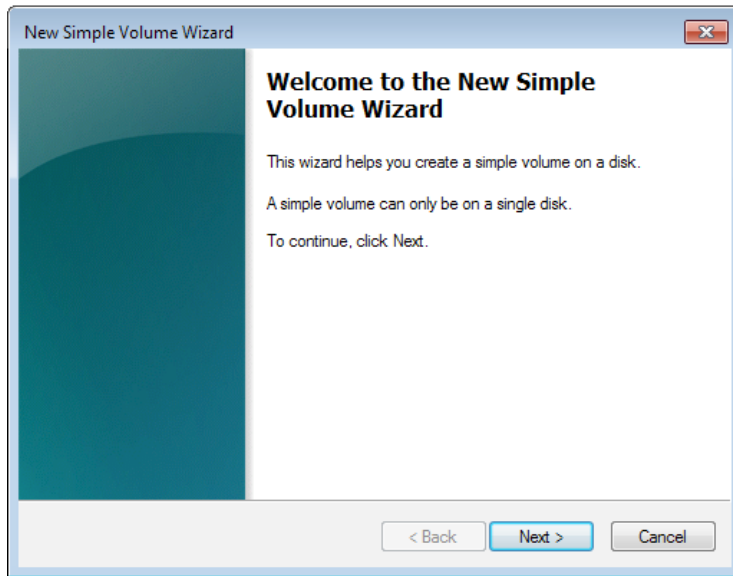
3. In the **Initialize Disk** menu, make sure both **Disk 1** and **Disk 2** are check marked, and the **MBR (Master Boot Record)** option is selected *this should be selected by default*. Click the **OK** button to initialize the disks.



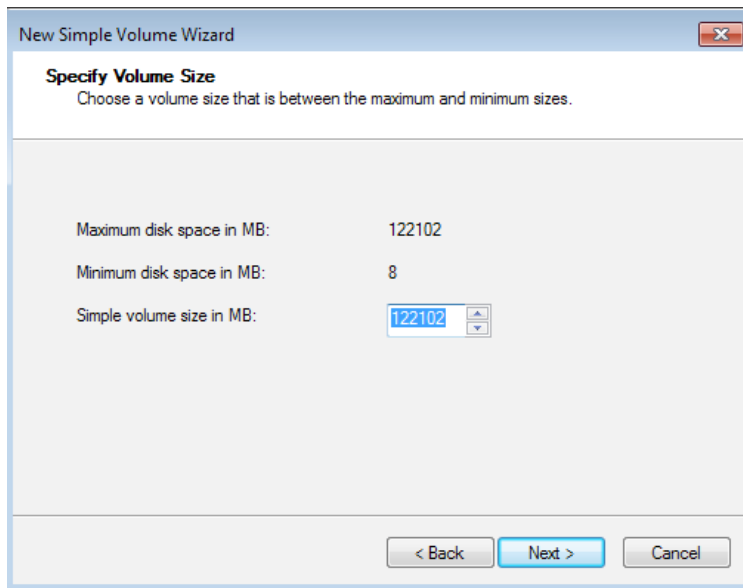
4. Back in the **Disk Manager** menu, right-click on **Disk 1**, and choose the **New Simple Volume** option. A new Wizard menu appears. Note that this process will need to be repeated with Disk 2.



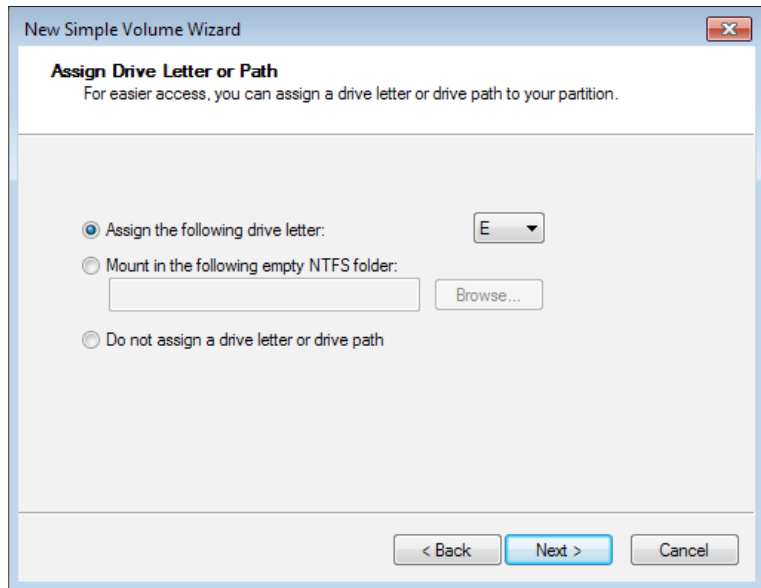
5. In the New Simple Volume Wizard, a description of a simple volume is provided, click **Next**.



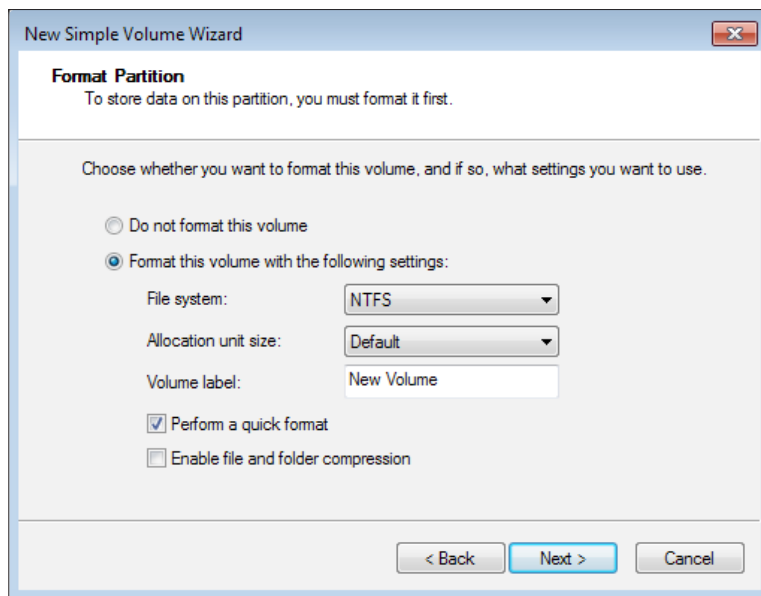
6. In the new menu, use the default Volume Size and click **Next**.



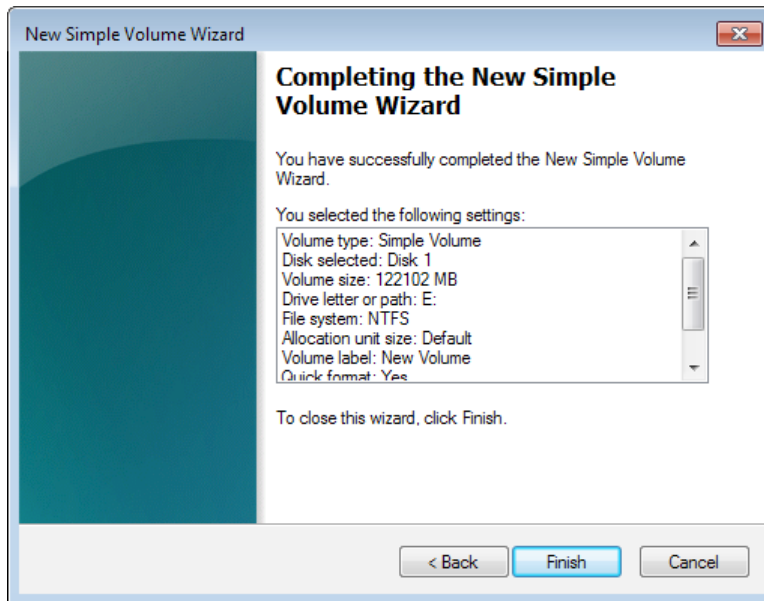
7. Assign a drive letter for the disk with the pull-down menu, or use the default. Click **Next** to continue.



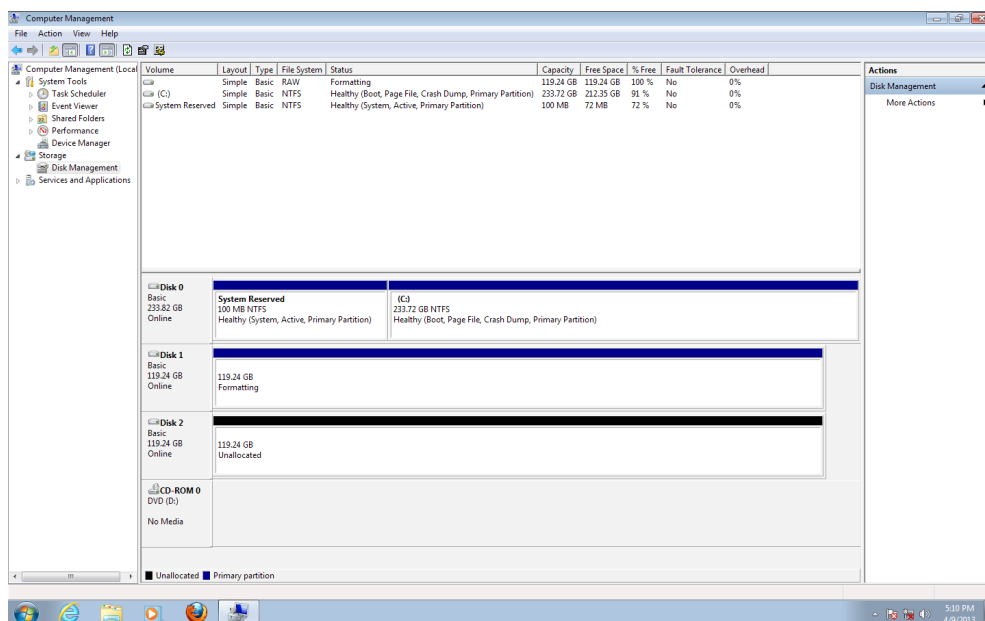
8. Provide a **Volume Label** in the space if you prefer, use the default file system (NTFS) and click the **Next** button.



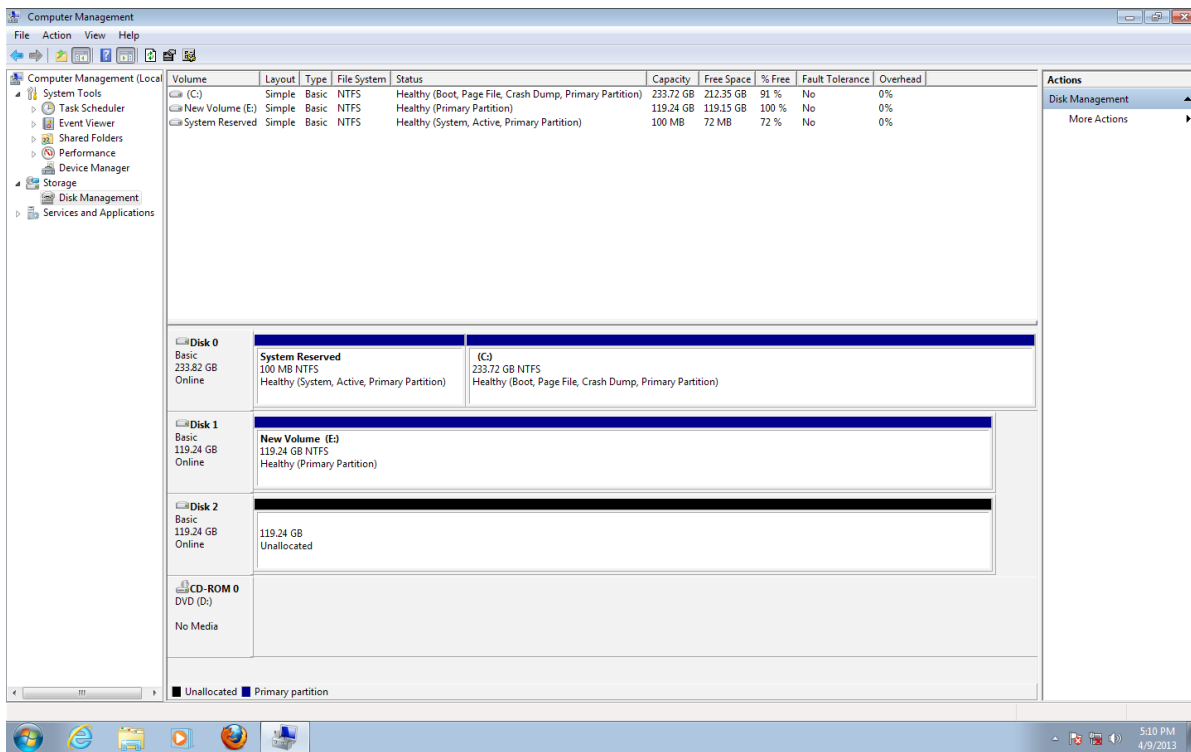
9. A summary of the New Simple Volume appears. Click the **Finish** button to begin formatting.



10. It will take a few seconds to format Disk 1.



11. When the formatting has finish, the disk will display *Healthy* as its status. Now repeat the New Simple Volume creation process with Disk 2. Go to Step 4 above and repeat the steps for Disk 2. When finished, both disks are available for use.



SAFELY REMOVE J2 FROM WINDOWS

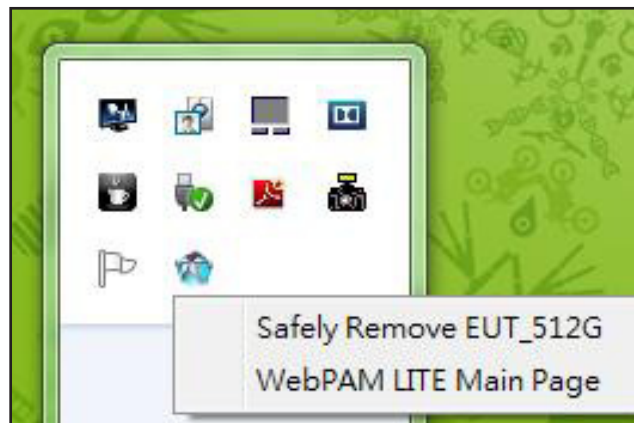
To disconnect the J2 drive from your Windows computer while the computer is running, it is necessary to perform the Safely Remove procedure using the WebPAM LITE software. If you remove the Thunderbolt cable while the operating system is running, data on the J2 might be damaged. If the computer has been shutdown, it is safe to disconnect the Thunderbolt cable.

You have the option of accessing the Safely Remove function through the WebPAM LITE icon in the System Tray on the desktop, or launch the full WebPAM LITE user interface. To view the WebPAM LITE user interface, click on the **WebPAM LITE** icon in the System Tray, in the menu that appears, choose the **Launch WebPAM LITE** option. See the software description below of how to use the WebPAM LITE user interface.

To Safely Remove the J2, launch WebPAM LITE, click on the Safely Remove button and wait for a confirmation message telling you it is OK to disconnect the J2.

To Safely Remove the J2 drive click on the **WebPAM LITE** icon located in the System Tray on your Windows desktop. A menu appears above the system tray. Choose the “**Safely Remove**” option to safely disconnect the J2. A message will confirm it is safe to remove the drive. Notice that you can also launch the WebPAM LITE software user interface if you choose the “WebPAM LITE Main Page” option in this same menu.

Click on the WebPAM LITE icon in System Tray



Important

After the J2 has been Safely Removed, it is automatically re-imported in any of the following ways:

- Thunderbolt cable is physically detached at either end, then reattached
- Windows is booted or rebooted with the J2 attached
- Perform the Import Disk procedure in WebPAM LITE (see “Import Disk with WebPAM LITE” on page 30)

J2 WEBPAM LITE SOFTWARE IN WINDOWS

Once the WebPAM LITE software is installed, the J2 will be automatically detected when it is connected to your Windows computer. You can also launch the full software user interface to update device firmware, to view real time information, to manually import the disk (if you have “Safely Removed” the J2 in the current Windows session) or to perform the Safely Remove procedure.

To view the WebPAM LITE user interface, click on the **WebPAM LITE** icon in the System Tray, in the menu that appears, choose the **Launch WebPAM LITE** option. The **Device** menu appears presenting a virtual front view of the J2. Use this menu to manually Import the J2 drive or to Safely Remove it.

IMPORT DISK WITH WEBPAM LITE

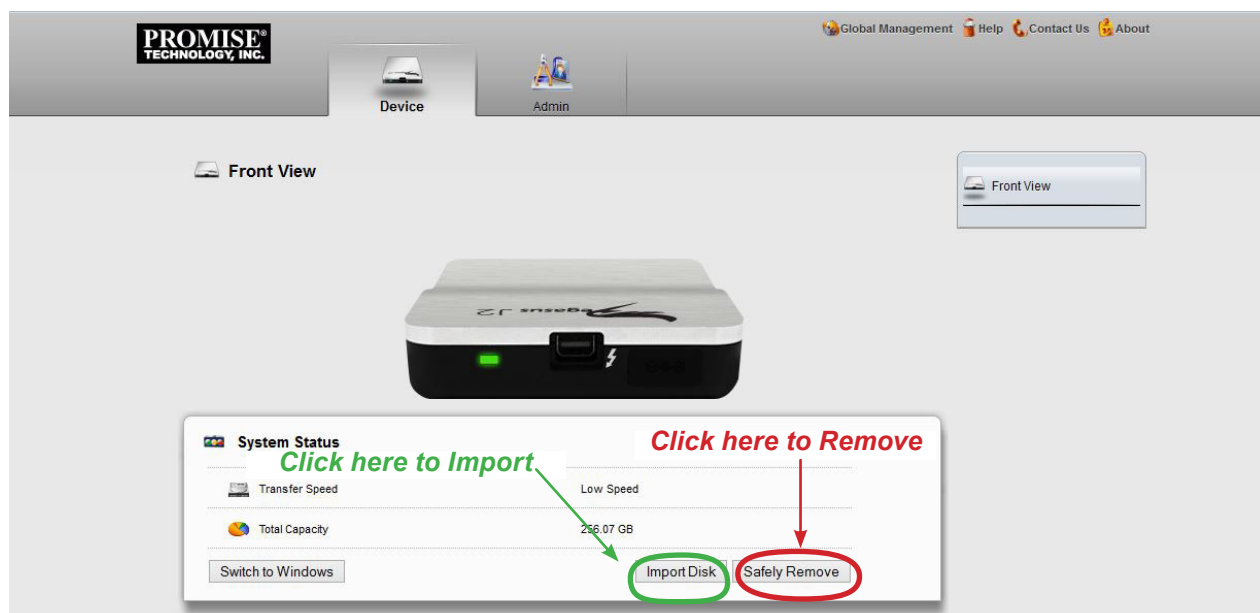
To import the J2 into Windows (i.e. Windows recognizes the J2 as a n attached storage device), simply click on the **Import Disk** button in the **Device** menu. A message appears when it is successfully imported. Open **My Computer** to view the J2 drive.

This procedure is only necessary if the J2 has been Safely Removed (see below) and you do not want to detach and reattach the Thunderbolt cable. The J2 is automatically imported into Windows as soon as the J2 is physically connected via the Thunderbolt cable.

SAFELY REMOVE THE J2 WITH WEBPAM LITE

To remove the J2 using the WebPAM LITE user interface, simply click on the **Safely Remove** button in the Device menu. A message appears when it is removed and it is safe to disconnect the Thunderbolt cable. If the procedure fails, try the procedure again until you see the message confirming it is safely removed.

WebPAM LITE Device manager



UPDATE J2 FIRMWARE IN WINDOWS

Use WebPAM LITE to update device firmware on the J2 or to update the version of WebPAM LITE installed on your computer.

To update J2 firmware or software, first check to see if the current versions are out of date. Click on the **Admin** icon in WebPAM LITE, then click on the **Device Update** link. The menu will list the current version of both the device firmware and WebPAM LITE software.



Important

Before updating the J2 firmware, make sure the J2 is not being used for any I/O operations.

Online Update

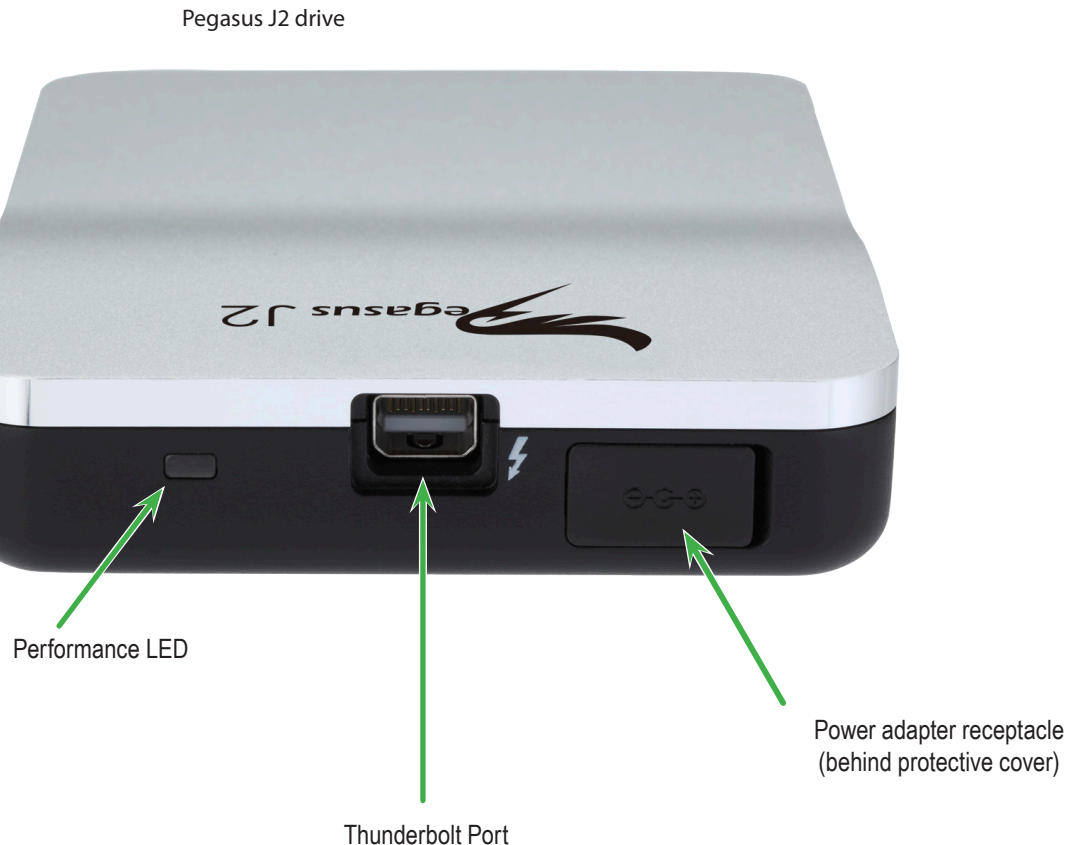
If the J2 firmware is out of date, the quickest method to update the J2 is to use the Online Update feature. First click on the link **Online Update** then click on the lower **Update** button to install the firmware flash file. Do not disconnect the J2 until you see a message confirming that the firmware has been updated.

Local Update

You also have the option of updating firmware from a file you previously downloaded from the PROMISE website. Do not disconnect the J2 until you see a message confirming that the firmware has been updated. To perform a local update, first go to the **Download Center** of the PROMISE website to download the latest firmware and place the file on your computer. Then click on the **Local Update** link. Click on the **Browse** button and locate the downloaded file, then click the **Next** button to begin the update process. Do not disconnect the J2 until you see a message confirming that the firmware has been updated.

J2 HARDWARE

The Pegasus J2 drive can be used with or without the power adapter. To use the power adapter, first read “Assemble the power adapter” on page 34 to assemble it with the type of plug for the socket used in your electrical system.



Thunderbolt Port

Use a Thunderbolt cable to connect the J2 to a Thunderbolt ready computer. This connection completes the physical link to the J2, this is the path through which the SATA link is established. Make sure the connector is properly oriented to both devices. For the cable connection to the J2, the connector should be oriented so Thunderbolt logo and the Pegasus logo on the top of the J2 are both facing the same direction. So if the J2 is placed top side up on a desk, the Thunderbolt logo on the connector will be facing up. When the cable is properly connected, the Performance LED will light after a few seconds.



WARNING

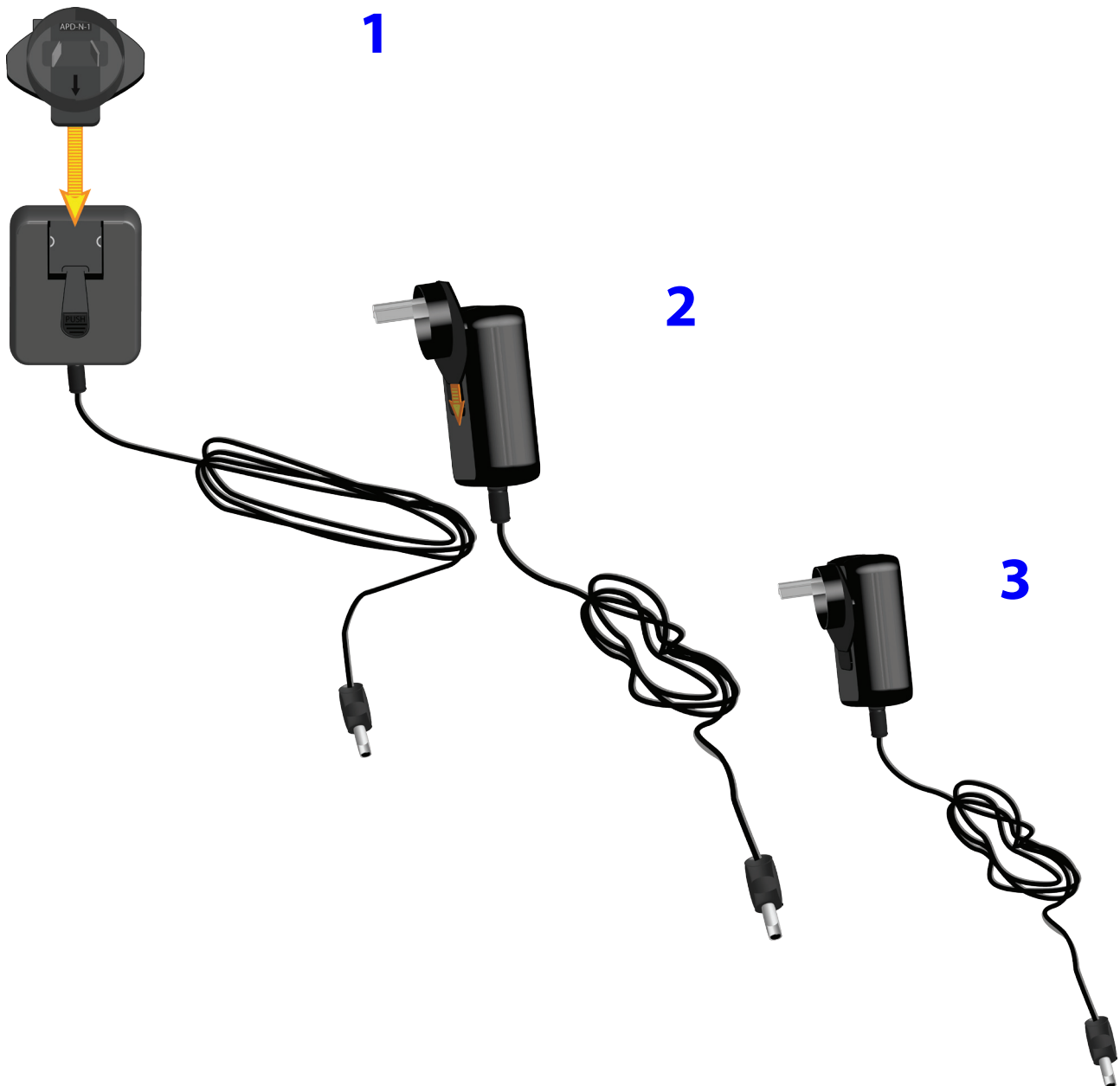
Use the power adapter included with the Pegasus J2. Using a different power adapter can damage the device.

Pegasus J2 universal power adapter with adapter plugs (not assembled)



ASSEMBLE THE POWER ADAPTER

Locate the correct plug adapter for the type of socket used for your electrical power service and slide it into the contact slot on the universal power adapter. It should easily snap in place.



CONNECT THE POWER FOR FASTER TRANSFER

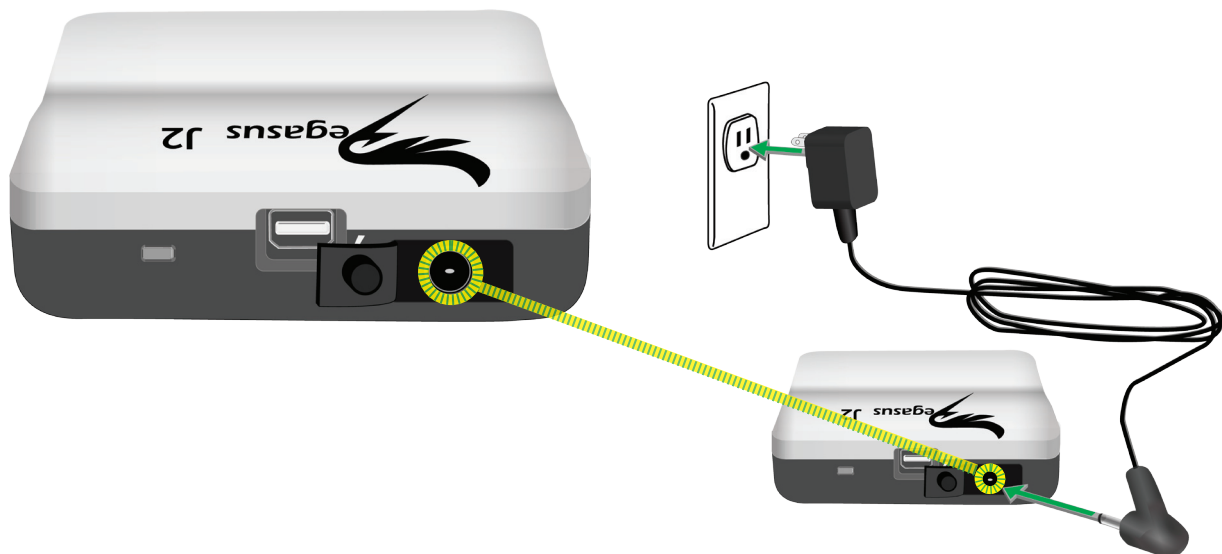
Use the power adapter for faster data transfer. The power adapter is shipped with seven detachable wall plug adapters suitable for most countries.

Please read “Assemble the power adapter” on page 34 of this guide for power adapter assembly instructions.



Note

It is recommended - but not required - to establish the Thunderbolt connection before connecting the power.



PERFORMANCE LED

You can check the LED indicator on the front to verify that the device is functioning properly and to monitor the Thunderbolt connection performance. When using the power adapter, the LED shines blue indicating a faster transfer speed. Without the power adapter, the LED shines green indicating a slower connection.

Performance LED at full power



Performance LED in bus mode (without power adapter)



ATTENTION!

If the J2 is left running (read/write) in bus mode for more than an hour, it will feel hot. Allow the J2 to cool off for a few minutes after disconnecting the Thunderbolt™ cable before handling it.

J2 SPECIFICATIONS

Power adapter	AC Input: 100-240V DC Output 12V /1.0A (12W)
Power consumption	13.68 W with power adapter 9.8 W without power adapter (bus mode)
Temperature	Operating: 5° ~ 35°C (41° ~ 95°F) Storage: -40° ~ 70°C (-40° ~ 158°F)
Humidity	Operating: 10% ~ 95% non-condensing Storage: 5% - 95% non-condensing
Dimensions	110 x 74 x 20.5 mm (4.33 x 2.91 x 0.81 inches)
Weight	J2 without power adapter: 140 grams (4.94 ounces)
Safety	UL/CUL/CE/TUV/BSMI
RAID configuration*	Windows RAID 0
File System	NTFS

*RAID is not supported on Windows 7 Starter or Windows 7 Home Basic editions. These versions must use JBOD configuration (the J2 appears as two separate disks).

